Q-328

SVE BULLETIN

SPECIAL VEHICLE ENGINEERING – BODY BUILDERS ADVISORY SERVICE

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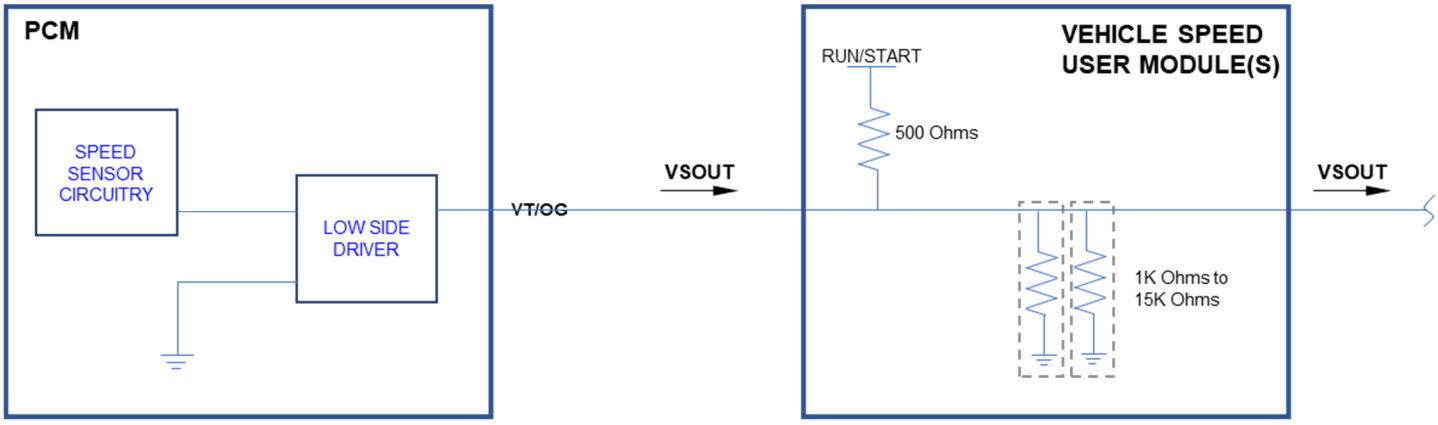
QVM BULLETIN: Q-328 DATE: 19 / NOV / 2020

F650/750 VEHICLE SPEED OUTPUT CIRCUIT

REVISION	UPDATE	REVISION DATE
Q-328	INITIAL RELEASE	19 / NOV / 2020

MODEL(S) AFFECTED:
2021 Model Year F650/750

ISSUE / DESCRIPTION:
Purpose of this Bulletin is to correct the guidance provided in the 2021 Model Year Body Builders Layout Book in regards to the vehicle speed output circuit access and functionality. The PCM provides an output signal, **VSOUT** (VT/OG), at a frequency 2.22 times vehicle speed, in MPH. This signal switches from OFF to ON repeatedly at a frequency dependent on vehicle speed. To properly access this output, the intermediate/final stage manufacturer will need to add a 500 Ohm pull-up resistor to the **VSOUT** circuit. One connection must made to the RUN/START circuit (12 Volts), and the other end connected to the **VSOUT** circuit. Another resistor must be added and connected to the same **VSOUT** circuit, and the other end of this resistor will be connected to ground. Using a 15K Ohm pull-down resistor will result in a voltage signal that is closer to RUN/START (12 Volts) voltage during in the OFF state (ground in the ON state). Therefore, on the **VSOUT** circuit, the voltage will switch from 12 volts to ground at a frequency dependent on vehicle speed. (See figure below)



Example:
2.22 x 60 MPH results in a signal switching at a rate of 132.2 times a second.

Please use this direction when accessing the Vehicle speed output circuit.

Refer to the Body Builder Layout Book for additional guidelines and recommendations. If you have any questions, please contact the Ford Body Builders Advisory Service as shown in the header of this bulletin.